

Preliminary Amendment  
U.S. National Stage of PCT/CN2004/001494  
Our ref: B-6030PCT 623540-9  
June 23, 2006  
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Amendments to the Specification

On page 1, please amend the title as follows:

**A PACKET SERVICE SCHEDULING UNIT AND A METHOD THEREOF**

On page 2,

Please amend the first complete paragraph, beginning on line 3, as indicated below:

Figure 2 shows another L2 VPN-service scheduling method of prior art, which, in comparison with the method shown in Figure 1, further includes a data exchanging plane to perform a data exchange between units of processing data services ~~data service processing units~~, however, the units connected with the cross-connecting unit are still the data service processing unit ~~the data service access processing units~~.

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Please amend the sixth complete paragraph, beginning on line 21, as indicated below:

The present invention also provides a packet service scheduling method which can achieve a "1+1" protection or a "1:1" protection for the service scheduling unit.

23  
Please amend the seventh complete paragraph, beginning on line 24 (paragraph ends on page 3), as indicated below:

An embodiment of the present invention aims to provide a packet-service scheduling unit, which may establish a data channel connection with one end of a cross-connecting unit in a digital communication system, and perform a service scheduling for packet services of a data service access processing unit and a line unit that establish a data channel connection with the other end of the cross-connecting unit, comprising: a de-mapping

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module, for receiving a virtual container or virtual container group from the cross-connecting unit in the system, and to extract an encapsulated data stream from the virtual container or the virtual container group for completing separation of the encapsulated data stream therefrom; a decapsulating module, for decapsulating the encapsulated data stream from the de-mapping module into an independent data frame; a packet scheduling module, provided with multiple output ports, to receive the decapsulated data frame from the decapsulating module, read a label from the data frame, determine a corresponding output port based upon the label, and forward the data frame via the output port; an encapsulating module, for receiving the data frame forwarded by the packet scheduling module and to encapsulate the data frame at the Data Link Layer; and a mapping module, for receiving the encapsulated data frame and to map the data frame to the virtual container or the virtual container group of the cross-connecting unit.

On page 3, please amend the first complete paragraph, beginning on line 11, as indicated below:

The ~~packet~~-service scheduling unit may further comprise a fault alarming module for monitoring the ~~packet~~-service scheduling unit and report an abnormal status to the cross-connecting unit.

*third*

*9*

On page 6, please amend the ~~second~~ complete paragraph, beginning on line ~~6~~, as indicated below:

According to the embodiments of the present invention, there is fourthly provided a ~~packet~~-service scheduling method that may use individual service scheduling units to perform a service scheduling for packet services from a line unit and a data service access processing unit in a digital communication system, including the steps of:

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On page 9,

Please amend the ~~penultimate~~ complete paragraph, beginning on line 26, as indicated below:

Figure 3 is a block diagram of an internal structure of a packet-service scheduling unit according to an embodiment of the present invention;

Please amend the last ~~complete~~ paragraph, beginning on line 29, as indicated below:

Figure 4 is a block diagram of an internal structure of a mapping/de-mapping module in the packet service scheduling unit according to the embodiment of the present invention;

On page 10,

Please amend the ~~first~~ complete paragraph, beginning on line 7, as indicated below:

Figure 5 is a block diagram of an internal structure of an encapsulating/decapsulating module in the packet-service scheduling unit according to the embodiment of the present invention;

Please amend the fifth complete paragraph, beginning on line 12, as indicated below:

As shown in Figure 3, a service scheduling unit according to an embodiment of the present invention establishes a data channel connection with one end of a cross-connecting unit in a digital communication system which is typically of [[SDH]]TDM (such as SDH/SONET, Synchronous Optical Network) or another type of transmission unit of OTN, and performs service scheduling for packet services of a data service access processing unit and a line unit which establish a data channel connection with the other end of the cross-connecting unit, and the service scheduling unit comprises the following modules.